



LOADSHREDDER

Load Shredder 5000

Specifications Document

Introduction

The Load Shredder 5000 is our entry level battery. It is a 24-volt 5kWh floor-standing system, perfectly matched to a small installation using our 3500watt 24-volt inverter range. It can be linked in series (max 2) to reach 48v and 10kWh in shortened form factor than the Load Shredder 10000.

The cells are A-Grade Energy Storage System prismatic cells from one of the world leaders in prismatic cells. These cells are computer matched for the longest life. The intelligent BMS communicate with 95% of the world inverters and balances the cells throughout their life.

The shell is made of a high-Quality Aluminium Magnesium alloy and is anticorrosive and durable. It is dust proof and designed to last many years.

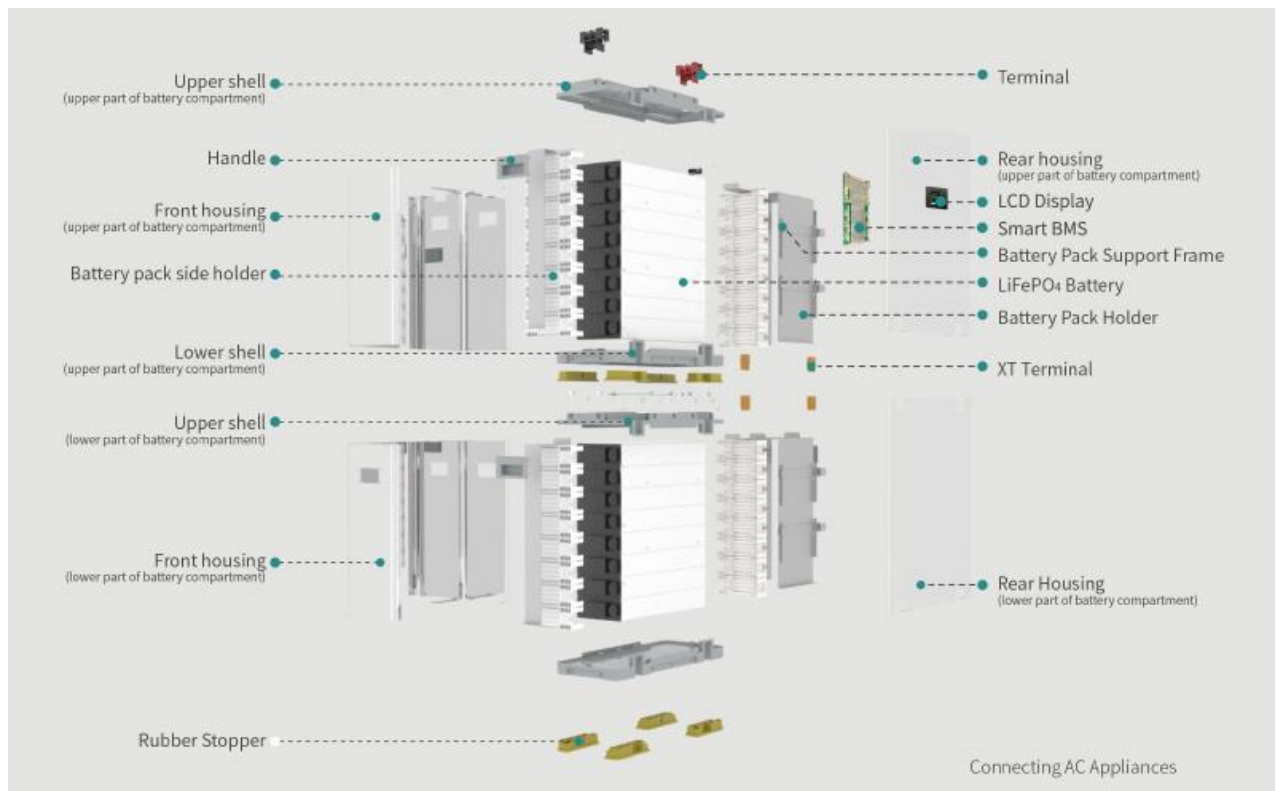


At a glance

A use-case for the battery would be **2000W** of throughput for **2.5 hours** (for example load shedding stages 1-5) and recharging in **less than 2 hours**.

Another use-case would be **1200W** of throughput for **4 hours** (for example load shedding stage 6+), also recharging in **less than 2 hours**.

Used in this way, the battery will last for more than **6000 cycles**, has a **10-year warranty** (manufacturer-guaranteed grade-A barcoded cells).



Full Specifications

Nominal Capacity	200Ah
Nominal Voltage	24V (25.6V)
Electricity(kWh)	5.120kWh
Input	
Full Charge Voltage	28V-30V
Maximum Charging Voltage	45V
Input Voltage Range	30V-50V
Continuously Use Input Current	100A
Maximum Solar Panel Input Current	100A
Output	
Continuously Use Output Current	100A
Discharge Cut-off Voltage	19V-24V
Over-Discharge Delay Protection	1000ms
Short Circuit Protection Delay	300us
Short Circuit Protection Recovery	Disconnect load
Cell type	LiFePO4 Battery/LFP Barcoded Grade-A Cells
Storage temperature range	Short-Term -20°C-40°C (Within 1 month) Long-term 10°C-35°C (Within 1 year)
Operating temperature range	-15°C-60°C
Recommended temperature range	10°C-40°C
Self-Discharge (25°)	<3%/Month
Depth of discharge	>80%
C-rate Discharge	<0.8C
Cycle Life	>6000Time(<0.5C)
Certification Standards	UN38.3/CE/MSDS/DGM
Warranty	5 years on hardware, 10 years on cells
Communication	RS485
Product Size	614±2×507±2×212±2mm
Packaging Size	668±2×645±2×713±2mm